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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

IMAGERY
ANALYSIS
DIVISION

CHUNG-CHING ARSENALS
NUMBERS 451 AND 456
CHUNG-CHING (CHUNGKING), CHINA

CIA/PIR 65 033

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GROUP 1
Excluded from automatic
downgrading and declassification

Declass Review by NIMA/DOD

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CHUNG-CHING ARSENALS NUMBERS 451 AND 456
CHUNG-CHING (CHUNGKING), CHINA

Two arsenals near Chung-Ching (Chungking), China have been identified from aerial photography--the Chung-Ching Arsenals Numbers 451 and 456. Approximate geographic coordinates for these two arsenals are:

Chung-Ching Arsenal Number 451	29 36N - 106 27E
Chung-Ching Arsenal Number 456	29 35N - 106 34E

Figures 2 and 3 show the geographic relationship of the two arsenals to one another and to the Chung-Shu-Two Ordnance Plants Numbers 1 and 2. In addition, there is another explosives plant, the Chung-Ching Explosives Plant, located 9.5 nautical miles north northwest of Chung-Ching. The two ordnance plants and the explosives plant are discussed in a previous report, CIA/PIR-65032.

A. Chung-Ching Arsenal Number 451

1. This arsenal is located 6.5 nautical miles west northwest of Chung-Ching on the west bank of the Chia-ling Chiang (river). It is road served and docking facilities for small craft are located along the river bank. The arsenal can be broken down into a production area covering approximately 3,700,000 square feet, a weapons test and storage area covering 2,000,000 square feet, and three storage areas totaling 1,300,000 square feet. The weapons test and storage area as well as the three storage areas are all secured. The production area is only partially secured.

A number of machine shops and fabrication buildings present in the production area, together with the four weapons test ranges indicate that the arsenal probably produces and tests small arms. A steel mill located directly west of the arsenal probably supplies it with some materiel and also eliminates the need for forges and/or foundries, facilities not present in the arsenal's production area.

The plant appeared to be active in [] Although no smoke or vehicles were observed within the production area, some open materiel storage was present. In addition, several buildings within the production area appeared of recent construction and a number of small craft were present at the docking facilities. The quality of the photography of [] over the arsenal precludes any estimate of activity.

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2. The limits of the various areas at the Chung-Ching Arsenal Number 451 are shown on Figure 4.

a. The annotations on this figure correspond to the following discussion:

(1) Secured area with six large storage buildings and several small buildings.

(2) Two storage buildings, road served.

(3) Approximately 15 revetments

foliage precludes a definite identification of these features.

(4) Weapons test range, approximately 230 feet long.

(5) Weapons test range, approximately 300 feet long.

(6) Weapons test range, approximately 420 feet long.

(7) Weapons test range - the visible portion is approximately 150 feet long; however, the range possibly extends into the hill to the east.

(8) Secured area

(9) Warehousing and possible shops area.

(10) Water treating facilities, including one building.

(11) Administration building.

(12) Power substation; an outside source apparently supplies power to the arsenal.

(13) Main production area with a number of fabrication buildings and machine shops.

(14) Open materiel storage.

(15) Area with small warehouses and shops.

(16) Docking facilities for barges and small craft.

(17) Secured area with three storage buildings, road served; the two buildings indicated by small arrows on the overlay are partially revetted and the terrain provides some blast protection.

b. With the exception of possible earth scarring near two of the weapons test ranges (Annotations 4 and 5), no apparent changes were noted in comparing the photography of with that of

B. Chung-Ching Arsenal Number 456

1. This arsenal is located 1.5 nautical miles northwest of the center of Chung-Ching on the north bank of the Chia-ling Chiang (river) and 1.5 nautical miles from the confluence of the Chia-ling Chiang and the Ch'ang Chiang (Yangtze River). It is partially secured, road served, and docking facilities for small craft are located along the river bank.

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Principal features of the arsenal are a number of machine shops and foundries, fabrication buildings, and final assembly buildings all located in an irregularly shaped production area covering approximately 7,600,000 square feet. A probable ballistic test facility is situated in rugged terrain approximately one nautical mile northeast of the arsenal and is possibly associated with it. However, there is no direct connection by road between the arsenal and this facility. Munitions hardware is probable produced with the facilities present at the arsenal. Specific identification of the type(s) of munitions hardware cannot be made, however, with the available photography. If it is assumed that the probable ballistic test facility is associated with this arsenal, then it would appear that small arms production takes place.

From the available photography it is difficult to determine the level of activity at the arsenal. No smoke, vehicles, or open materiel storage were observed. However, the presence of a number of barges and other small craft at the docking facilities in [] as well as the condition of the buildings and roads within the arsenal indicate that it was active during this period. Construction possibly associated with the arsenal (see Part 2, Section b) may be an indicator of more recent activity.

2. The approximate limits of Chung-Ching Arsenal Number 456 are outlined on Figure 6.

a. The annotations on this figure correspond to the following discussion:

- (1) Probable ballistic test facility consisting of a probable testing building, two adjacent weapons test ranges measuring approximately 230 feet (one of the ranges is slightly longer), and a "U-shaped" building.
- (2) Probable administration building.
- (3) Possible machine shop and foundry.
- (4) Main production area, including at least eight probable machine shops.
- (5) Two probable final assembly buildings.
- (6) Possible foundry.
- (7) Probable boilerhouse; a conveyor system for hauling materiel from the banks of the Chia-Ling Chiang (river) to the arsenal is located to the east. In addition, there is another conveyor for removing waste materials to the south of the probable boilerhouse.

Besides the major facilities annotated above, the production area contains numerous warehouses, maintenance shops, and small unidentified buildings.

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b. In comparing photography of [] with that of [] only one apparent change was noted; a large building is in a late stage of construction at the northeast end of the arsenal (Figure 7). It may or may not be part of the arsenal; the quality of this latest photography does not permit further analysis.

C. All measurements have been made by the CIA/IAD/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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REFERENCES

MAPS OR CHARTS

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REQUIREMENT

CIA. C-RR5-82,671

CIA/IAD PROJECT

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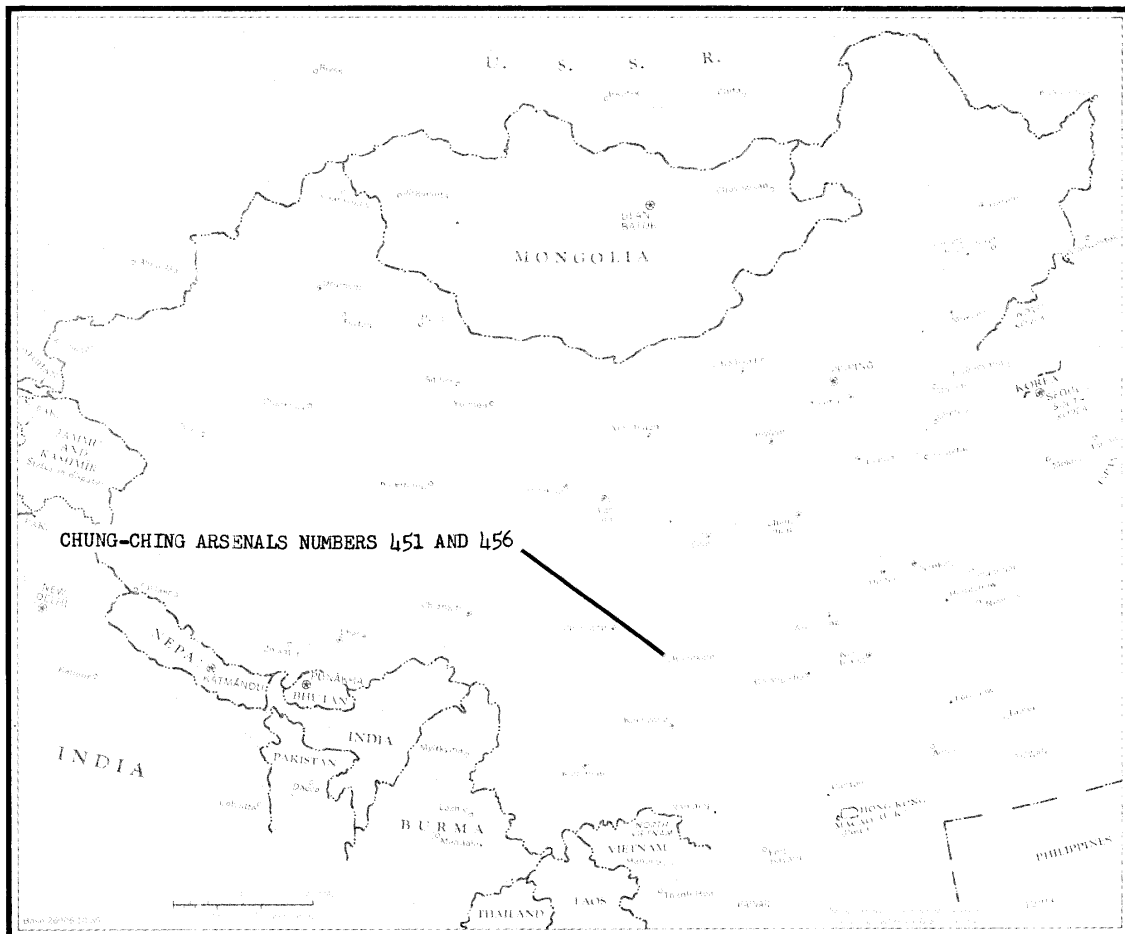
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FIGURE 1

25X
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25X
25X

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FIGURE 3



- a. CHUNG-CHING ARSENAL NUMBER 451
- b. CHUNG-SHU-TO ORDNANCE PLANT NUMBER 1
- c. CHUNG-SHU-TO ORDNANCE PLANT NUMBER 2
- d. CHUNG-CHING ARSENAL NUMBER 456

ORDNANCE PLANTS AND ARSENALS
Chung-Ching, China
29 33N - 106 32E

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X1
X1

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FIGURE 1



CHUNG-CHING ARSENAL NUMBER 451
Chung-Ching, China
29 36N - 106 27E

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25X

25X
15X

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FIGURE 5

CHIA-LING CHIANG

CHUNG-CHING ARSENAL NUMBER 451
Chung-Ching, China
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FIGURE 6

CHUNG-CHING ARSENAL NUMBER 456
Chung-Ching, China
29 35N - 106 34E

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